

Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices.

THE
PLANT DISEASE REPORTER
ISSUED BY
THE OFFICE OF MYCOLOGY AND DISEASE SURVEY

Supplement 74

Index to Supplements 67 - 73

December 31, 1929



BUREAU OF
PLANT INDUSTRY

UNITED STATES DEPARTMENT OF AGRICULTURE

THE
PLANT DISEASE REPORTER
ISSUED BY
THE OFFICE OF MOGULOC AND DISEASE SURVEY

Supplement N

July 10, 1900 - 15

Deciphered by, 1900



BUREAU OF
PLANT INDUSTRY
UNITED STATES DEPARTMENT OF AGRICULTURE

INDEX OF ORGANISMS AND NON-PARASITIC DISEASES
IN
THE PLANT DISEASE REPORTER
SUPPLEMENTS LXVII - LXXIII, 1929

Plant Disease Reporter
Supplement 74

December 31, 1929

Prepared by Mary G. Van Meter

- Achlya americana, poplar, 168.
- Actinomyces scabies, beet, 86.
potato, 19, 142, 344.
sp., sweet potato, 50.
- Actinopelt'e japonica, Quercus mari-
landica, 361.
- Quercus prinus, 361.
- Quercus sp., 361.
- Aecidium abundans, snowberry, 165.
compositarum, goldenglow, 164.
cornutum, serviceberry, 161.
porosum, vetch, 155.
- Albinism, alfalfa, 150.
sweet clover, 151.
- Albino plants, alfalfa, 312.
sweet clover, 318.
- Albugo candida, Lepidium campestre,
358.
mustard, 68.
turnip, 69.
- ipomoeae-panduranae, Ipomoea
hederacea, 358.
sweet potato, 50.
- tragopogonis, Ambrosia artemisiifolia, 353.
Artemisia sp., 354.
salsify, 92, 147.
- Alternaria brassicaceae, broccoli, 66.
cabbage, 65, 341.
cauliflower, 66.
- citri, citrus, 247.
- cotton, 97.
- dianthi, Dianthus caryophyllus, 383.
- fasciculata, Gladiolus sp., 349, 384.
- radicina, carrot, 86.
- solani, eggplant, 87.
potato, 18, 141, 344, 345.
tomato, 37, 145, 346, 347.
- sp., Dahlia sp., 382.
Paeonia sp., 350.
pepper, 90.
salsify, 92.
tobacco, 101.
wheat, 281.
- tenuis, wheat, 126.
- Ameris rosicola, rose, 165.
- Angular leaf spot lesions, cotton, 97.
- Anthracnose, pea, 4.
- Aphanomyces euteiches, pea, 3, 12, 139.
raphani, radish, 68.
- Aphelenchus apiculatus, Narcissus spp.,
388.
modestus, Narcissus spp., 388.
parietinus, Narcissus spp., 389.
sp., Deutzia longifolia, 383.
Salvia spp., 392.
- Apical leaf roll, potato, 30.
- Aplanobacter insidiosum, alfalfa, 308.
michiganense, tomato, 40.
stewartii, corn, 301.
sweet corn, 334.
- Arceuthobium americanum, lodgepole pine,
169.
western yellow pine, 169.
cyanocarpum, limber pine, 169.
- Armillaria mellea, apple, 325.
cherry, 228.
peach, 222.
- Pinus ponderosa, 370.
- strawberry, 236.

Arsenical injury, apple, 202.
Ascochyta abelmoschi, okra, 89.
 althaeina, *Althaea rosea*, 348, 377.
 colorata, strawberry, 161.
 Fragaria vesca, 161.
 compositarum, *Eupatorium purpureum*,
 357.
 imperfecta, alfalfa, 311, 337.
 pinodella, pea, 5, 8, 9, 11, 140.
 pisi, pea, 8, 9, 140.
 vetch, 318.
 rhei, rhubarb, 91, 345.
Ascochyta leaf and pod spot, pea, 4.
Ascochytula asparagina, *Asparagus*
 plumosus, 378.
Ascospora rubi, raspberry, 241.
Aspergillus, cotton, 97.
 niger, onion, 61.
Aster yellows, *Ambrosia elatior*, 394.
Helichrysum bracteatum, 385.

B

Bacillus amylovorus, apple, 192, 325,
 328.
 cherry, 228.
Crataegus oxyacantha, 349, 373.
 loquat, 252.
Malus floribunda, 374.
 pear, 207, 328, 329.
Pyrus coronaria, 361.
 quince, 211, 329.
carotovorus, cabbage, 65.
 carrot, 86.
 celery, 82.
 Iris sp., 350.
 Iris spp., 386.
phytophthora, potato, 21, 344, 345.
radicicola, (see *Rhizobium leguminosarum*), 137, 141.
tracheiphilus, cantaloupe, 342.
 cucumber, 70, 343.
 muskmelon, 73.
 squash, 70.
 watermelon, 80.
Bacteria, cotton, 97.
Bacterial blight, pea, 13.
Bacterial leaf spot, *Berberis thunbergi*, 348.
 strawberry, 161.
Bacterium angulatum, tobacco, 99.
 apii, celery, 83.
 atrofaciens, wheat, 281

beticolum, sugar beet, 108.
campestre, Brussels sprouts, 66.
 cabbage, 63, 341.
 cauliflower, 66.
 kale, 68.
 radish, 68.
 turnip, 69.
cannae, *Canna* sp., 381.
cerasi, cherry, 228.
citri, citrus, 248.
coronafaciens, oats, 296.
delphinii, *Delphinium* sp., 382.
 Delphinium spp., 349.
dissolvens, corn, 303.
holci, sorghum, 133.
 Sudan grass, 134.
hyacinthi, *Hyacinthus* sp., 386.
juglandis, walnut, 256.
lachrymans, cucumber, 71.
 muskmelon, 76.
maculicola, cabbage, 65.
 cauliflower, 66.
 horseradish, 67.
malvacearum, cotton, 95.
marginatum, *Gladiolus* sp., 384.
medicaginis, alfalfa, 311.
medicaginis phaseolicola, bean, 53.
mori, mulberry, 247.
pelargoni, *Pelargonium* sp., 390.
phaseoli, bean, 52, 340.
 lima bean, 57.
phaseoli sojense, soybean, 316.
pisi, pea, 2, 4, 8.
pruni, cherry, 228.
 peach, 215, 329.
 plum, 225.
 prune, 225.
puerariae, kudzu, 319.
solanacearum, eggplant, 87.
 pepper, 90.
 potato, 23.
 tobacco, 101.
 tomato, 41, 347.
sp., alfalfa, 308.
 Begonia sp., 379.
 Cyclamen sp., 382.
 filbert, 257.
 Hyacinthus sp., 386.
 soybean, 340.
 sugar cane, 104.
spp., lettuce, 146.
syringae, *Syringa vulgaris*, 393.
tabacum, tobacco, 98.

- translucens, barley, 132, 292.
 translucens undulosum, wheat, 125,
 275.
 trifoliolum, white clover, 314.
 tumefaciens, almond, 257.
 Antirrhinum majus, 378.
 apple, 195.
 apricot, 230.
 beet, 86.
 blackberry, 243.
 Calycanthus sp., 380.
 cherry, 229.
 Euonymus sp., 384.
 grape, 232.
 loganberry, 244.
 peach, 222.
 pear, 210.
 pecan, 255.
 plum, 225.
 prune, 225.
 raspberry, 241, 331.
 Rosa spp., 391.
 Sorbus aucuparia, 376.
 sugar beet, 108.
 vesicatorium, pepper, 90.
 tomato, 46.
 vignae, cowpea, 315.
 lima bean, 57.
 viridifaciens, (see *B. vignae*) 57.
 viridilividum, lettuce, 83.
 woodsi, *Dianthus caryophyllus*, 383.
 Balansia hypoxylon, *Danthonia* com-
 pressa, 356.
 Basisporium gallarum, corn, 303.
 Bitter pit, apple, 156, 198, 327.
 pear, 210.
 Black heart, apple, 156.
 celery, 83.
 potato, 34.
 Blackleaf, pea, 4.
 Black lenticels, apple, 205.
 Black pit, pecan, 256.
 Black point, wheat, 281.
 Black root, safflower, 154.
 strawberry, 235.
 Black root rot, pea, 4.
 Blast, *Avena fatua*, 319.
 oats, 130, 297.
 sorghum, 134.
 wheat, 128.
 Blastocladia ramosa, poplar, 168.
 Blight, *Populus tremuloides*, 167.
 Blossom-end rot, pepper, 91.
 tomato, 41, 347.
 Boll rots, cotton, 96.
 Botryosphaeria fuliginosa, *Populus*
 maximowiczii, 375.
 ribis, currant, 244, 311.
 Populus nigra, 375.
 Botrytis allii, onion, 59, 60.
 byssoides, onion, 59, 60.
 cinerea, bean, 56.
 onion, 60.
 parsnip, 147.
 pepper, 90.
 raspberry, 241.
 Rhododendron spp., 391.
 Rubus sp., 361.
 strawberry, 235.
 sunflower, 153.
 Syringa vulgaris, 393.
 hypophylla, *Asclepias syriaca*, 354.
 paeoniae, *Paeonia* sp., 350.
 Paeonia spp., 389.
 sp., *Aconitum*, 377.
 Azalea kaempferi, 378.
 Caragana arborescens, 372.
 Chrysanthemum sp., 381.
 Clarkia sp., 381.
 currant, 245.
 Feijoa sellowayana, 251.
 onion, 60.
 quince, 211.
 Rosa spp., 391.
 spp., lettuce, 83.
 Lilium spp., 388.
 onion, 59.
 squamosa, onion, 59, 60.
 tulipae, *Tulipa* sp., 393.
 Bramble streak, black raspberry, 159.
 Brema lactucae, lettuce, 83.
 Briar bud, strawberry, 237.
 Brooming disease, *Robinia pseudacacia*,
 352.
 Brown bark spot, apple, 156, 205.
 pear, 157, 210.
 sour cherry, 157.
 Brown blight, lettuce, 84.
 Brown blotch, pear, 210, 328.
 Brown leaf spot, wheat, 128.
 Brown root rot, tobacco, 102.
 Brown spots, cherry, 229.
 Bud rot, coconut, 258.
 Burr knot, apple, 205, 327.

- Caconema radicicola*, *Actinidia* spp., 377.
alfalfa, 311.
Althaea rosea, 377.
bean, 56.
Begonia sp., 379.
Buddleia stenostachys, 379.
carrot, 87.
Catalpa ovata, 373.
cauliflower, 66.
celery, 83.
Chrysanthemum sp., 381.
Clematis integrifolia, 381.
Clerodendron spp., 381.
clover, 314.
cotton, 96.
cucumber, 73.
Cyclamen sp., 382.
Dahlia sp., 382.
Dianthus caryophyllus, 383.
Diervilla spp., 383.
fig, 251.
Gardenia florida, 384.
horseradish, 67.
Iris spp., 386.
lettuce, 83.
Ligustrum spp., 387.
musk-melon, 76.
Nandina domestica, 374.
Paeonia spp., 389.
pea, 12.
peach, 222.
pepper, 91.
Petunia hybrida, 390.
Philadelphus sp., 390.
potato, 32.
Schinus molle, 376.
strawberry, 236.
sweet potato, 50.
Syringa vulgaris, 393.
tobacco, 102.
tomato, 45, 145.
turnip, 69.
watermelon, 80.
Caeoma nitens, *Rubus* sp., 361.
Calico, *bean*, 138.
 potato, 145.
California scaly bark, *citrus*, 249.
Calyptospora columnaris, *alpine fir*, 171.
 great silver fir, 171
 huckleberry, 162.
Canker, *peach*, 222.
Cat face, *tomato*, 47.
Cenangella deformata, *juniper*, 170.
Cenangium abietis, *western yellow pine*, 169.
piniphilum, *western yellow pine*, 169.
populneum, *Populus trichocarpa*, 375.
sp., *poplar*, 168.
willow, 168.
Center rot, *tomato*, 48.
Cephalobus elongatus, *oats*, 297.
 spp., *Deutzia longifolia veitchii*, 303.
Cephalosporium acremonium, *corn*, 303.
 field corn, 133.
 sweet corn, 133.
Cephalothecium roseum, *peach*, 222.
 quince, 211.
Ceratostomella fimbriata, *sweet potato*, 48.
Cercospora althaeina, *Malva rotundifolia*, 359.
ampelopsisidisi, *Ampelopsis tricuspidata*, 377.
Psedera quinquefolia, 351.
angulata, *currant*, 245, 332.
 apii, *celery*, 82, 342.
 parsley, 90.
 apii carotae, *carrot*, 87, 342.
 apii pastinacae, *parsnip*, 90, 343.
armoraciae, *horseradish*, 67, 343.
asparagi, *asparagus*, 86.
atromacularis, *Aralia spinosa*, 354.
beticola, *beet*, 86, 341.
 red beet, 148.
 spinach, 92.
 sugar beet, 108.
capsici, *pepper*, 91.
cercidicola, *Cercis canadensis*, 355.
circumscissa, *cherry*, 229.
 plum, 225.
 prune, 225.
citrullina, *watermelon*, 80.
clavata, *Asclepias incarnata*, 354.
Asclepias syriaca, 354.
concors, *potato*, 344.
cruenta, *bean*, 56.
cucurbitae, *pumpkin*, 77, 345.
davisii, *sweet clover*, 317.
 white sweet clover, 330.
depazeoides, *Sambucus canadensis*, 362.
diazu, *soybean*, 316.
diospyri, *Diospyros virginiana*, 356.

- dubia, *Chenopodium album*, 355.
 elongata, *Dipsacus sylvestris*, 357.
 fici, fig, 251.
 fusca, pecan, 255.
 fusimaculans, *Panicum dichotomiflorum*, 359.
 galii, *Galium parisiense*, 357.
 helveola, white clover, 339.
 hibisci, okra, 89.
 hydropiperis, *Polygonum hydropiper*, 360.
 lycii, *Lycium halimifolium*, 358.
 lythracearum, (see *Mycosphaerella lythracearum*), 254.
 magnoliae, *Magnolia acuminata*, 359.
 mali, apple, 203.
 medicaginis, alfalfa, 311, 337.
 hop clover, 338.
 red clover, 314, 338.
 nicotianae, tobacco, 102.
 omphakodes, *Phlox* sp., 350.
 Phlox spp., 391.
 personata, peanut, 90.
 racemosa, *Ambrosia trifida*, 354.
 rhododendri, *Rhododendron* spp., 391.
 rhuina, *Rhus copallina*, 361.
 rosicola, *Rosa* sp., 352.
 rubi, *Rubus* sp., 361.
 salviicola, sage, 346.
 smilacina, *Smilax hispida*, 362.
 sordida, *Tecoma radicans*, 362.
 sp., cowpea, 315.
 fig, 251.
 mulberry, 247.
 Pittosporum sp., 391.
 sweet clover, 317.
 turnip, 69.
 symphoricarpi, snowberry, 165.
 teucrui, *Teucrium canadense*, 362.
 varia, *Viburnum* sp., 353.
 zebrina, alsike clover, 314.
 Cercosporaella albo-maculans, Chinese cabbage, 67.
 rutabaga, 345.
 turnip, 69.
 cana, *Erigeron ramosus*, 357.
 Erigeron sp., 357.
 Cerotelium fici, fig, 251.
 Chlorosis, apple, 205.
 bean, 57.
 citrus, 248.
 peach, 222.
 plum, 226.
 poplar, 168.
 prune, 226.
 Rosa spp., 392.
 Chrysomyxa weiri, spruce, 170.
 Cladosporium carpophilum, apricot, 230.
 cherry, 229.
 peach, 214, 329, 330.
 cucumerinum, cucumber, 72.
 effusum, pecan, 254.
 fasciculatum, *Magnolia* sp., 374.
 fulvum, tomato, 39.
 herbarum, *Agropyron repens*, 353.
 wheat, 281.
 herbarum phaseoli, bean, 137.
 humile, *Acer rubrum*, 353.
 Acer sp., 353.
 paeoniae, *Paeonia* spp., 390.
 sp., *Asparagus plumosus*, 378.
 Calendula officinalis, 379.
 Hydrangea sp., 386.
 Lilium spp., 388.
 pea, 8.
 Pelargonium sp., 390.
 sorghum, 339.
 Symporicarpos spp., 393.
 Viburnum sp., 353.
 Viburnum spp., 394.
 Claviceps purpurea, *Agropyron crista-tum*, 133.
 Agropyron repens, 319.
 Agropyron spp., 135.
 barley, 132, 292.
 Phalaris arundinacea, 319.
 rye, 133, 283, 335.
 wheat, 127, 274, 336.
 sp., *Elymus* sp., 319.
 Paspalum sp., 319.
 Clitocybe tabescens, peach, 222.
 Coccomyces hiemalis, cherry, 227, 330.
 choke cherry, 158.
 Prunus pennsylvanica, 330, 360.
 Prunus serotina, 330, 360.
 sweet cherry, 157.
 prunophorae, plum, 225.
 prune, 225.
 Coleosporium carneum, *Vernonia noveboracensis*, 363.
 elephantopodis, *Elephantopus carolinianus*, 357.
 Elephantopus sp., 394.
 inconspicuum, *Coreopsis tripteris*, 356.

- solidaginis, *Aster macrophyllus*,
 355.
Aster puniceus, 355.
Aster sp., 355.
Callistephus chinensis, 379.
 lodgepole pine, 169.
Pinus resinosa, 370.
Solidago caesia, 362.
Solidago sp., 362.
Colletotrichum amphicarpeae, *Amphi-*
carpa monoica, 354.
Accr spp., 371.
circinans, onion, 61.
elasticae, fig, 251.
falcatum, sugar cane, 104.
gloeosporioides, avocado, 250.
 citrus, 248.
 mango, 252.
graminicolum, barley, 292.
 Holcus sorghum sudanensis, 320.
 oats, 130, 296.
 rye, 284.
 wheat, 274.
lagenarium, cantaloupe, 342.
 cucumber, 71, 343.
 muskmelon, 74.
 watermelon, 79, 347.
lindemuthianum, bean, 51, 136, 341.
 lima bean, 57.
lineola, broom corn, 334.
 sorghum, 339.
linicolum, flax, 154.
malvarum, *Althaea rosea*, 377.
nigrum, pepper, 91.
phomooides, tomato, 46, 347.
pisi, pea, 9.
sp., date, 251.
 Holcus halepensis, 319.
Hydrangea sp., 386.
Ligustrum spp., 387.
 mango, 252.
 Paeonia spp., 390.
 strawberry, 236.
spinaciae, spinach, 92.
trifolii, alfalfa, 311.
 clover, 313.
 red clover, 338.
Coniothyrium sp., *Viburnum* spp., 394.
 Copper injury, apple, 202.
 Core molds, apple, 205.
 Cork and drought spot, apple, 205.
Corticium koleroga, fig, 251
 pear, 210
- vagum, cabbage, 65.
 cotton, 97.
 lettuce, 84.
 peanut, 90.
 potato, 21, 142, 344.
 sweet clover, 151, 318.
 tobacco, 102, 340.
 tomato, 45.
Coryneum bcijerinckii, almond, 257.
 cherry, 229.
 peach, 220.
 sp., *Cupressus* spp., 367.
 Cracking of fruit, apple, 205.
Creonectria purpurea, chokecherry, 158.
 Crimps, strawberry, 237.
 Crinkle-joint, rye, 133, 284.
 wheat, 127, 281.
Cronartium coleosporioides, lodgepole
 pine, 169.
comptoniae, *Pinus nigra*, 369.
filamentosum, western yellow pine,
 170.
harknessii, lodgepole pine, 169.
Pinus ponderosa, 370.
pyriforme, lodgepole pine, 169.
 western yellow pine, 169.
ribicola, *Pinus monticola*, 368.
Pinus strobus, 370.
Ribes, 369.
Ribes petiolare, 369.
stalactiforme, lodgepole pine, 169.
 western yellow pine, 170.
 Crown rots, alfalfa, 310.
Crucibulum vulgare, juniper, 170.
Cryptosphaeria millepunctata, poplar,
 168.
Cryptospora anomala, filbert, 257.
 viticola, grape, 232.
 Curly mosaic, potato, 144.
 Curly top, alfalfa, 312.
 bean, 56.
 beet, 86.
 cucumber, 73.
Helichrysum bracteatum, 385.
 lima bean, 58.
 mangel-wurzel, 148.
 muskmelon, 76.
 pumpkin, 77.
 red beet, 148.
 squash, 77, 78.
 sugar beet, 107, 148.
 tomato, 38.
 watermelon, 81.

Cuscuta arvensis, carrot, 87.
 onion, 147.
gronovii, onion, 147.
 sp., alfalfa, 151, 311.
Cylindrocladium scoparium, *Rosa* spp., 391.
Cylindrosporium acerinum, maple, 167.
apocyni, *Apocynum cannabinum*, 354.
betulae, *Betula* sp., 372.
brevispina, hawthorn, 162.
caryigenum, pecan, 255.
cercosporoides, *Liriodendron tulipifera*, 358, 374.
cicutae, *Cicuta maculata*, 356.
clematidis, *Clematis virginiana*, 356.
filipendulae, *spiraea*, 166.
pomi, apple, 325, 328.
salicifoliae, *spiraea*, 166.
salicinum, *Salix* sp., 362.
 sp., alder, 166.
Quercus spp., 375.
Cystospora batata, (see *Actinomyces* sp.), 50.
Cytospora chrysosperma, *Acer rubrum*, 371.
 chokecherry, 158.
 maple, 167.
 mountain ash, 167.
 poplars, 167.
Populus lasiocarpa, 375.
Populus spp., 375.
Salix babylonica, 376.
Salix sp., 376.
 vine maple, 167.
elaeagni, *Elaeagnus angustifolia*, 373.
euonymella, *Euonymus* sp., 384.
pinastri, *Pinus sylvestris*, 370.
 sp., apple, 203.
 spp., apple, 156.
umbrina, alder, 166.

D

Daldinia concentrica, river birch, 167.
Darluca filum, *Juncus tenuis*, 358.
Dasydrypha calycina, *Pseudotsuga douglasii*, 370.
fuscosanguinea, western larch, 170.
 western white pine, 169.

Dendrophoma obscurans, *Fragaria chiloensis*, 236.
 strawberry, 236, 332.
Dermatea populina, poplar, 168.
 Diamond canker, plum, 226.
 prune, 226.
Diaporthe phaseolorum, lima bean, 57.
umbrina, *Rosa* spp., 391.
Diatrype bullata, poplar, 168.
Dicaeoma allenii, buffaloberry, 163.
clematidis, columbine, 163.
Didymellina iridis, iris, 164.
Iris sp., 350.
Iris spp., 386.
Didymosphaeria brunneola, *Asparagus plumosus*, 378.
euryasca, lodgepole pine, 169.
manitobensis, black raspberry, 159.
Rubus leucodermis, 159.
 Dieback, citrus, 248.
Dimerosporium collinsii, *Amelanchier canadensis*, 354.
 serviceberry, 161.
populi, poplar, 168.
Diplocarpon earliana, *Fragaria chilensis*, 234.
Fragaria cuneifolia, 234.
 strawberry, 161, 234.
rosae, *Rosa* sp., 352.
Rosa spp., 392.
 rose, 165.
Diplodia gossypina, cotton, 97.
longispora, *Quercus rubra*, 376.
natalensis, citrus, 248.
 sp., fig, 252.
 watermelon, 80.
tubericola, sweet potato, 50.
zeae, corn, 301, 333, 334.
Dothichiza populea, *Populus lasiocarpa*, 375.
Populus spp., 375.
 Downy mildew, pea, 4, 13.
 Drought injury, potato, 34.
 Dwarf, strawberry, 237.

E

Ear rots, corn, 299.
Echinodontium tinctorium, Alpine fir, 171.
 Douglas fir, 171.
 great silver fir, 171.
 hemlock, 171.

- spruce, 170.
Endothia parasitica, *Castanea dentata*,
 348, 372.
Entyloma compositarum, sunflower, 153.
polysporum, sunflower, 153.
Epichloe typhina, grasses, 320.
Epicoecum neglectum, sweet corn, 334.
Erostrotheca multiformis, *Lathyrus
odoratus*, 387.
Erwinia amylovora, apple, 155.
 pear, 157.
 plum, 158.
atroseptica, potato, 143.
Erysiphe cichoracearum, *Ambrosia
trifida*, 354.
 cucumber, 73.
Cucumis melo chita, 75.
Cucumis melo culta, 75.
Cucumis sativus, 75.
Dahlia sp., 382.
Eupatorium purpureum, 357.
 muskmelon, 75.
Phlox sp., 350.
 pumpkin, 77, 345.
 rhubarb, 91.
Rudbeckia laciniata, 392.
 squash, 78.
 sunflower, 153.
graminis, *Agropyron* spp., 135.
 barley, 291.
 oats, 296.
 rye, 284, 335.
 wheat, 126, 276, 336.
polygoni, *Aconitum*, 377.
 alsike clover, 152.
Aquilegia sp., 348, 378.
 bean, 56.
 Chinese cabbage, 67.
 clover, 314.
 columbine, 163.
 cowpea, 316.
Delphinium sp., 382.
Delphinium spp., 349.
Lathyrus odoratus, 350.
 lima bean, 56.
 pea, 8, 141.
 red clover, 152, 338.
 serviceberry, 161.
 turnip, 69.
 vetch, 155.
 white clover, 152.
Eutettix tenella, sugar beet, 148.
 tomato, 38.
- Eutypella sorbi*, mountain ash, 167.
Exoascus communis, plum, 158.
 decipiens, plum, 158.
 deformans, almond, 257.
 peach, 159, 213, 329, 330.
mirabilis, plum, 225.
pruni, plum, 158, 224, 330.
 prune, 224.
 spp., alder, 166.
Exobasidium vaccinii, *Azalea indica*,
 378.
Azalea kaempferi, 378.
 cranberry, 246.
 huckleberry, 162.
viciae, *Vicia villosa*, 318.
Exosporium palmivorum, date, 251.
- F
- Fabraea maculata*, pear, 157, 209,
 328, 329.
 quince, 211, 329.
 serviceberry, 161.
 False blossom cranberry, 246.
 False canker, citrus, 248.
 Fertilizer injury, potato, 34.
 Flap tumor, apple, 205, 327.
 Flooding damage, onion, 61.
Fomes annosus, *Picea engelmanni*, 368.
 everhartii, poplar, 168.
fomentarius, apple, 156.
ignarius, alder, 166.
 birch, 166.
nigrolimitatus, *pinus monticola*,
 369.
officinalis, Douglas fir, 171.
 western larch, 170.
pinicola, lodgepole pine, 169.
 spruce, 170.
rimosus, *Robinia pseudacacia*, 352.
 Foot rot, pea, 3, 5, 12, 13.
 wheat, 128, 276, 277.
 French bud, strawberry, 237.
 Frenching, citrus, 248.
 tobacco, 102.
 Frost injury, apple, 201.
 potato, 34.
 Fruit cracking, apple, 156.
 tomato, 48.
 Fruit pimple, watermelon, 81.
 Fruit rots, raspberry, 242.
 Fruit spot, tomato, 45.
Fumago vagans, plum, 225.

- prune, 225.
 Fumigation injury, tomato, 48.
 Fusarium affine, tobacco, 102.
 anguicoides, potato, 143.
 annuum, pepper, 91.
 arthrosporioides, potato, 143.
 atroseptica, wheat, 126.
 batatas, sweet potato, 49.
 bullatum, potato, 143.
 clavatum, potato, 143.
 coeruleum, potato, 143.
 conglutinans, cabbage, 62, 341.
 cauliflower, 66
 collard, 67.
 conglutinans callistephi, Callistephus chinensis, 348, 380.
 culmorum, corn, 333.
 potato, 143.
 discolor, potato, 143.
 discolor sulphureum, potato, 143.
 gibbosum, potato, 143.
 lini, flax, 154, 305.
 lycopersici, tomato, 35, 145, 347.
 malli, onion, 59.
 martii phaseoli, bean, 55, 137, 341.
 martii pisi, pea, 11, 140.
 meniliforme, corn, 299, 333.
 cotton, 97.
 niveum, muskmelon, 76.
 watermelon, 79, 347.
 orthoceras pisi, pea, 140.
 oxysporum asclerotium, potato, 143.
 oxysporum gladioli, Gladiolus sp., 384.
 oxysporum medicaginis, alfalfa, 311.
 oxysporum nicotianae, tobacco, 102.
 oxysporum, potato, 22, 142, 344, 345.
 sweet potato, 50.
 parasiticum, Agrostis alba, 353.
 pea, 11.
 scleroticoides brevius, potato, 143.
 solani, potato, 143.
 sp., Abies sp., 367.
 celery, 83.
 Chrysanthemum sp., 381.
 corn, 333, 334.
 cowpea, 316.
 Dianthus caryophyllus, 383.
 Lilium spp., 388.
 Matthiola sp., 388.
 Narcissus spp., 389.
 Paeonia spp., 390.
 Picea spp., 367.
- squash, 78.
 Telanthera bettzickiana, 393.
 wheat, 281
 spp., alfalfa, 311.
 bean, 55.
 Callistephus chinensis, 380.
 corn, 299.
 Helichrysum sp., 385.
 potato, 142.
 turnip, 69.
 subpallidum roseum, potato, 143.
 subulatum brevius, potato, 143.
 trichothecioides, potato, 143.
 vasinfectum, cotton, 94.
 okra, 89.
 wheat, 276, 278, 279.
 Fusarium wilt, pea, 3, 5, 13, 14.
 Fusicladium alopecuri, wheat, 124, 126, 281.
 dendriticum orbiculatum, Sorbus americana, 376.
 pisicola, pea, 9, 140.
 tremulae, Populus spp., 375.
 Fusisporium rubi, blackberry, 243.
 dewberry, 244.
- G
- Giant hill, potato, 145.
 Gibberella, corn, 333, 334.
 saubinetii, barley, 287.
 corn, 299, 333.
 oats, 296.
 rye, 283.
 wheat, 127, 272, 336, 337.
 Gloeodes pomigena, apple, 196, 326.
 pear, 210, 328.
 Gloeosporium ailanthi, Ailanthus glandulosa, 353.
 aletridis, Aletris sp., 377.
 apocryptum, Acer saccharum, 372.
 Acer spp., 371.
 betae, sugar beet, 148.
 caulivorum, clover, 313.
 red clover, 152.
 exitiosum, Actinomeris alternifolia, 353.
 frigidum, Euonymus japonica, 384.
 impatientis, Impatiens biflora, 358.
 perennans, apple, 203.
 piperatum, pepper, 91.
 rhododendri, Rhododendron spp., 391.

rosae, *Rosa* spp., 392.
saccharinum, *Acer saccharum*, 353.
sp., *Acer* spp., 371.
 avocado, 250.
Magnolia sp., 374.
Passiflora sp., 390.
 pomegranate, 253.
Rhododendron spp., 391.
Glomerella cingulata, apple, 190, 326,
 328.
 grape, 233.
Hydrangea sp., 386.
Lathyrus odoratus, 387.
Paeonia spp., 390.
 pear, 210.
 quince, 211, 329.
Symporicarpos spp., 393.
 cotton, 97.
gossypii, cotton, 96.
 pomigena, apple, 326, 328.
 Glume blotching and spotting, rice,
 307.
Glutinium macrosporum, apple, 203.
Gnomonia leptostyla, *Juglans nigra*,
 358.
 walnut, 256.
ulmea, *Ulmus fulva*, 362.
Ulmus spp., 377.
veneta, *Platanus occidentalis*,
 351, 375.
Quercus sp., 351, 361.
Quercus spp., 375.
Gnomoniella tubiformis, *Alnus rugosa*,
 353.
Gonatobotryum maculicolum, *Hamamelis virginiana*, 357.
Graphiola phoenicis, date, 251.
 Greasy spot, citrus, 248.
Guignardia aesculi, *Aesculus glabra*,
 353.
Aesculus hippocastanum, 372.
bidwellii, *Ampelopsis tricuspidata*,
 377.
 grape, 230, 332.
Vitis bicolor, 363.
Vitis sp., 363.
buxi, *Buxus sempervirens*, 379.
Gummosis, citrus, 248.
 sour cherry, 157.
 sweet cherry, 157.
 Gum spot, plum, 226.
 prune, 226.

Gymnoconia interstitialis, blackberry,
 160, 243, 331.
 black raspberry, 159.
 dewberry, 244.
 raspberry, 238, 331.
Gymnosporangium betheli, hawthorn, 162.
 juniper, 170.
clavariaeforme, juniper, 170.
 serviceberry, 161.
cornutum, mountain ash, 167.
germinale, apple, 185.
Crataegus oxyacantha, 373.
Crataegus sp., 356.
 hawthorn, 162.
 quince, 211, 329.
globosum, apple, 185.
 pear, 210.
 juniperinum, mountain ash, 167.
juniperi-virginianae, apple, 185.
 326, 328.
Malus ioensis, 374.
Malus ioensis plena, 374.
Pyrus coronaria, 361.
juvenescens, juniper, 170.
nelsoni, juniper, 170.
 mountain ash, 167.
 serviceberry, 161.
tubulatum, hawthorn, 162.
 juniper, 170.

H

Hail injury, apple, 201.
 cotton, 97.
 potato, 34.
 Head cracking, cabbage, 65.
 Heat canker, flax, 154, 305.
Helminthosporium avenae, oats, 296,
 334, 335.
californicum, barley, 292.
gramineum, barley, 132, 289, 332.
oryzae, rice, 306.
sativum, barley, 132, 290.
 wheat, 123, 276, 277, 278, 280.
sp., cowpea, 316.
 wheat, 281.
spp., wheat, 281.
stenospilum, sugar cane, 104.
teres, barley, 132.
 (see *Pyrenophora teres*), 291.
tritici-repentis, rye, 335.
turcicum, corn, 303, 333, 334.

Holcus sorghum sudanensis, 320.
sweet corn, 334.
wheat, 277.
Herpotrichia nigra, Douglas fir, 171.
juniper, 170.
limber pines, 169.
spruce, 170.
Heterodera radicicola (see *Caconema radicicola*), 12, 311, 314.
schachtii, sugar beet, 107.
Heterosporium phragmites, oats, 130.
Hollow-heart, potato, 34, 145.
Hollow stem, potato, 47.
Hopperburn, bean, 57.
eggplant, 87
potato, 31, 345.
soybean, 317.
Hormodendron cladosporioides, wheat, 381.
hordei, barley, 132.
Hyaloceras depazeoides, *Rosa* spp., 392.
Hylemia cilicrura, potato, 143.
Hypochnus sp., apple, 203.
Hypocrea richardsoni, poplar, 168.
Hypoderma deformans, western yellow pine, 170.
Hypodermella laricis, western larch, 170.
sulcigena, *Pinus flexilis*, 368.

I

Illosporium malifoliorum, apple, 189, 203, 326.
Malus coronaria, 374.
Pyrus coronaria, 361.
Internal black spot, cabbage, 65.
Internal brown spots, potato, 34.
Intumescences, pea, 5, 12, 141.
Isariopsis clavigpora, grape, 233.
griseola, bean, 56, 341.

J

Jonathan spot, apple, 205, 327.

K

Kabaticlla microsticta, *Lilium* spp., 388.
nigricans, vetch, 155, 318.

polyspora, *Acer dasycarpum pyramidale*, 371.
Kernel spot, pecan, 256.
Kuehneola uredinis, blackberry, 243.
Rubus sp., 361.

L

Lachnella flammea, willow, 168.
Leaf-blotch, pea, 5, 13.
Leaf-curl, raspberry, 240.
Leaf girdle, barley, 132.
wheat, 128.
Leaf hopper injury, alfalfa, 312.
Leaf-roll, potato, 26, 144, 345.
tomato, 48.
Leaf-rust, oats, 335.
Leaf-scorch, lima bean, 58.
Leaf-spot, muskmelon, 76.
pepper, 91.
sour cherry, 157.
tobacco, 340.
Tradescantia, 166.
wheat, 281.
Lemoine's disease, *Paeonia* spp., 390.
Leptosphaeria coniothyrium, blackberry, 243.
raspberry, 241, 331.
Rosa sp., 352.
Rosa spp., 392.
heterospora, *Iris* spp., 386.
Leptothyrium castaneae, *Castanea dentata*, 355.
pomi, apple, 196, 326, 328.
Crataegus sp., 356.
plum, 225.
prune, 225.
Prunus americana, 360.
punctiforme, *Erigeron ramosus*, 357.
rosarum, *Rosa* sp., 352.
tumidulum, *Solidago juncea*, 362.
vulgare, *Spireae* sp., 352, 393.
Lightning injury, bean, 57.
cotton, 97.
potato, 34.
watermelon, 81.
Linospora psederae, *Ampelopsis* sp., 354.
Little peach, peach, 219, 330.
Lophioctoma sp., *Nandina domestica*, 374.

Lophodermium abietis, *Abies* sp., 367.
pinastris, limber pines, 169.
Pinus murrayana, 369.
Pinus parviflora, 369.
Pinus sylvestris, 370.
western white pine, 169.

M

Macrophoma candolleti, *Buxus sempervirens*, 379.
fici, fig, 252.
sp., *Celtis occidentalis*, 373.
Macrophomina phaseoli, bean, 56.
Macrosporium avenae, oats, 130.
carotae, carrot, 87, 342.
cucumerinum, cantaloupe, 342.
cucumber, 73, 343.
muskmelon, 74.
watermelon, 80.
inquinans, sunflower, 153.
iridicolum, iris, 164.
iridis, iris, 164.
porri, onion, 61.
sarcinaeforme, clover, 314.
red clover, 338.
sarcinula parasiticum, onion, 61.
sp., alfalfa, 312, 337.
endive, 88.
Lantana sp., 387.
tomato, 46.
turnip, 69.
tomato, tomato, 46.
Marasmius tritici, wheat, 281.
Marssonia apicalis, willow, 168.
castagniei, poplar, 168.
Marssonina aquilegiae, *Aquilegia* sp., 378.
coronariae, *Pyrus coronaria*, 361.
panattoniana, lettuce, 84.
populi, *Populus alba*, 351, 375.
Populus canadensis, 351.
Populus deltoides, 375.
Populus spp., 375.
sp., *Salix lasiandra*, 376.
thomasiana, *Euonymus atropurpureus*, 384.
Massariella curreyi, *Tilia* sp., 376.
Measles, apple, 206, 327.
pear, 210.
Melampsora albertensis, Douglas fir, 171.
poplar, 168.

willow, 168.
arctica, alpine fir, 171.
great silver fir, 171.
willow, 168.
bigelowii, willow, 168.
confluens, willow, 168.
humboldtiana, willow, 168.
lini, flax, 154, 305.
Linum lewisii, 154.
medusae, poplar, 168.
occidentalis, poplar, 168.
salicina, willow, 168.
salicis capraea, willow, 168.
salicis, willow, 168.
Melampsorella elatina, alpine fir, 171.
Melampsoridium betulae, birch, 166.
river birch, 167.
Melampsoropsis cassandrae, *Picea pungens*, 368.
Picea spp., 367.
pyrolae, spruce, 170.
Melanconium bicolor, *Betula alba laciniata*, 372.
fuligineum, grape, 232.
sacchari, sugar cane, 104.
Microsphaera alni, alder, 166.
Betula lenta, 355.
Castanea dentata, 355.
pecan, 255.
vetch, 155.
diffusa, snowberry, 165.
grossulariae, black currant, 162.
Microstroma alba, *Quercus alba*, 361.
juglandis, pecan, 255.
walnut, 256.
Mild mosaic, potato, 25.
Monilia seaveri, chokecherry, 158.
Monilochaetes infuscans, sweet potato, 50.
Monochaeta sp., *Viburnum* sp., 353.
Mosaic, *Aconitum*, 377.
alfalfa, 150.
alsike clover, 315.
apple, 206.
Aquilegia sp., 378.
bean, 54, 137, 341.
blackberry, 244.
black raspberry, 159.
corn, 303.
cowpea, 316.
cucumber, 71, 343.

- dewberry, 160, 244.
gladiolus, 163.
Gladiolus sp., 385.
Iris spp., 387.
Lathyrus odoratus, 387.
lettuce, 84, 146.
Lilium spp., 388.
loganberry, 160, 244.
muskmelon, 75.
Narcissus spp., 389.
onion, 343.
pea, 5, 12, 13, 141.
pepper, 91.
petunia, 164.
Phlox spp., 391.
Phytolacca decandra, 359.
Phytolacca sp., 394.
potato, 144, 345.
purple raspberry, 159.
raspberry, 239, 331.
red clover, 152, 315, 338.
red raspberry, 159.
soybean, 317.
spinach, 92.
squash, 78.
sugar beet, 108.
sugar cane, 103.
sweet clover, 151, 318.
sweet potato, 50.
tobacco, 100, 340.
tomato, 43, 145, 347.
Tulipa sp., 393.
white clover, 315.
wild cucumber, 147.
Mosaic-like disease, eggplant, 87.
watermelon, 81.
Mottle and chlorotic stripe, wheat, 128.
Mottled leaves, currant, 162.
Mouse ear, pecan, 256.
Mycosphaerella blight, pea, 4, 12, 13.
Mycosphaerella citrullina, cucumber, 73.
watermelon, 80.
convexula, pecan, 255.
fragariae, strawberry, 161, 234, 332.
grossulariae, currant, 245.
gooseberry, 245.
impatientis, *Impatiens* sp., 358.
lethalis, white sweet clover, 338.
lythracearum, pomegranate, 254.
pinodes, pea, 8, 9, 140, 344.
vetch, 318.
rubi, blackberry, 244.
dewberry, 160, 244.
loganberry, 244.
raspberry, 240, 331.
Rubus hispida, 361.
rubina, raspberry, 242.
sentina, pear, 209, 328.
tabaciflora, sugar beet, 148.
tulasnei, wheat, 281, 336.
ulmi, *Ulmus americana*, 362.
Myxosporium corticolum, apple, 203.
rosae, *Rosa* spp., 392.
sp., *Cinnamomum camphora*, 373.

N

- Nectria cinnabarinata*, *Acer palmatum*, 371.
apple, 203.
currant, 162.
fici, fig, 252.
galligena, apple, 198.
sp., walnut, 256.
Nectriella rousseliana, *Buxus sempervirens*, 379.
Nematodes, tomato, 145.
Nematospora sp., citrus, 248.
cotton, 97.
pomegranate, 254.
Neofabraea malicorticis, apple, 156, 204.
Nigredo fabae, vetch, 155.
Nummularia discreta, apple, 204, 326.
Nut blight, filbert, 257.

O

- Oedema, cabbage, 65.
tomato, 48.
Oil injury, apple, 202.
Oligidium pendulum, western yellow pine, 170.
Ophiobolus graminis, wheat, 276, 278, 279.
Ophiodothis haydeni, *Aster multifloris*, 355.
Aster sp., 355.
Ovularia aristolochiae, *Aristolochia macrophylla*, 354.
Ozonium omnivorum, (see *Phymatotrichum omnivorum*), 312.

- Patrioza cockerelli, potato, 28.
 Penicillium, cotton, 97.
 gladioli, *Gladiolus* sp., 385.
 sp., *Iris* spp., 386.
 sunflower, 153.
 Tulipa sp., 393.
 spp., citrus, 248.
 Peridermium coloradense, spruce, 170.
 montanum, lodgepole pine, 169.
 ornamentale, alpine fir, 171.
 pini, western yellow pine, 170.
 Perohospora effusa, carrot, 87.
 Chenopodium album, 355.
 spinach, 92.
 manshurica, soybean, 317, 340.
 parasitica, cabbage, 65.
 cauliflower, 66.
 turnip, 69, 347.
 polygoni, *Polygonum* sp., 360.
 Schachtii, sugar beet, 108.
 schleidenii, onion, 58.
 trifoliorum, alfalfa, 149, 312.
 vidiae, pea, 8, 140.
 Pestalotia sp., avocado, 250.
 date, 251.
 Pestalozzia funerea, *Platanus occidentalis*, 360.
 guepini, *Gaylussacia baccata*, 357.
 heucheræ, *Heuchera americana*, 357.
 inquinans, *Camellia japonica*, 380.
 macrostricha, *Rhododendron* spp., 391.
 monochaetoides *parasitica*, *Physosma*
 carpus opulifolius, 359.
 sp., *Acer platanoides*, 371.
 Andromeda sp., 378.
 Cotoneaster sp., 382.
 Cryptogramma acrostichoides, 382.
 Cydonia spp., 382.
 uvicola, grape, 233.
 Pezizella lythri, *Ligustrum* spp., 387.
 Rhus typhina, 361.
 strawberry, 236.
 Phacidium infestans, *Picea* spp., 367.
 Phleospora aceris, *Acer saccharum*, 353.
 asiminae, *Asimina triloba*, 354.
 hyalospora, alfalfa, 312, 337.
 maculans, *Morus rubra*, 350.
 multimaculans, (see *Septoria plataniifolia*), 351.
 robiniae, *Robinia pseudacacia*, 352, 376.
 Phlyctaena linicola, flax, 305.
 Phoma betae, sugar beet, 107, 148.
 destructiva, pepper, 91.
 tomato, 46.
 lingam, cabbage, 62, 342.
 pomi, apple, 197.
 quince, 211.
 sp., bean, 56.
 Callistephus chinensis, 380.
 onion, 59.
 Rosa sp., 352.
 zeicola, sweet corn, 334.
 Phomopsis juniperovora, *Juniper procumbens*, 367.
 Retinospora squarrosa, 370.
 Thuja sp., 370.
 kalmiae, *Kalmia latifolia*, 387.
 occulta, *Picea engelmanni*, 368.
 Picea pungens, 368.
 Picea pungens kosteri, 368.
 Picea spp., 367.
 sp., *Acer palmatum*, 371.
 Buxus sempervirens, 379.
 Cornus sp., 373.
 Rosa sp., 352.
 Stewartii, *Cosmos* sp., 349, 381.
 stictica, *Buxus sempervirens*, 379.
 vexans, eggplant, 87, 343.
 Phony disease, peach, 219.
 Phragmidium disciflorum, rose, 165.
 imitans, raspberry, 242.
 mohtivagum, rose, 165.
 mucronatum, rose, 165.
 potentillae-canadensis, *Potentilla*
 cahadensis, 360.
 rosae-acicularis, rose, 165.
 rosae-arkansanae, rose, 165.
 rosae-setigerae, rose, 165.
 subcorticinum, rose, 165.
 Phyllachora cyperi, *Cyperus strigosus*, 356.
 graminis, *Agropyron repens*, 320, 353.
 Elymus canadensis, 357.
 Muhlenbergia mexicana, 359.
 Panicum sp., 320.
 puncta, *Panicum huachucae*, 359.
 Panicum latifolium, 359.
 Panicum microcarpon, 359.
 trifolii, alsike clover, 314.
 red clover, 314.
 white clover, 153, 314, 339.
 Phyllactinia corylea, alder, 166.
 birch, 166.

- hawthorn, 162.
Phyllosticta antirrhini, *Antirrhinum majus*, 378.
auerswaldii, *Buxus sempervirens*, 379.
bataticola, sweet potato, 51
betae, sugar beet, 148.
betulae, *Betula lenta*, 355.
brunnea, *Poplar*, 168.
capsici, pepper, 344.
caryae, pecan, 255.
chrysanthemi, *Chrysanthemum* sp., 381.
commonsii, *Paeonia* sp., 350.
 Paeonia spp., 390.
concentrica, *Hedera helix*, 349, 385.
cornuti, *Asclepias syriaca*, 354.
corylea, red osier, 164.
destruens, chokecherry, 158.
euonymi, *Eyonymus japonica*, 384.
 Euonymus sp., 384.
fragaricola, strawberry, 237.
galactis, *Galax* sp., 384.
hydrangeae, *Hydrangea* sp., 386.
kalmicola, *Kalmia latifolia*, 387.
liriodendrica, *Liriodendron tulipifera*, 358.
magnoliae, *Magnolia acuminata*, 359.
minima, *Acer saccharum*, 372.
 Acer spp., 371.
 minutissima, maple, 167.
nyssae, *Nyssa sylvatica*, 359.
ovalifolii, *Ligustrum* spp., 388.
phaseolina, bean, 56, 341.
 mung bean, 58.
platani, *Platanus occidentalis*, 351.
polygonorum, buckwheat, 340.
prunicola, apple, 326.
 pear, 326, 328.
 Prunus americana, 326, 360.
 Prunus serotina, 326, 360.
 Pyrus coronaria, 326, 361.
pyrorum, pear, 210.
rubi-odorati, *Rubus odoratus*, 362.
rubra, *Crataegus oxyacantha*, 349.
solitaria, apple, 183, 327, 328.
 Crataegus sp., 356.
sp., *Acer* sp., 353.
 Magnolia sp., 374.
 pepper, 344.
 plum, 225.
 prune, 225.
straminella, rhubarb, 91.
virginiana, chokecherry, 158.
Phymatotrichum omnivorum, alfalfa, 312.
 apple, 204.
 apricot, 230.
 beet, 86.
 blackberry, 244.
Buddleia stenostachys, 379.
 carrot, 87.
Chamaecrista nictitans, 394.
 citrus, 248.
 clover, 314.
Cosmos sp., 381.
 cotton, 93.
 cowpea, 316.
Crotalaria spp., 394.
 dewberry, 244.
 fig, 252.
Fraxinus lanceolata, 373.
Gardenia florida, 384.
Gleditsia triacanthos, 374.
 grape, 233.
Indigofera sp., 386.
 kudzu, 319.
Lantana sp., 387.
Lavatera sp., 394.
 lima bean, 57.
Mirabilis jalapa, 388.
 mulberry, 247.
 mung bean, 58.
Nerium sp., 374.
 okra, 89.
 peach, 222.
 peanut, 90.
 pecan, 256.
Phytolacca sp., 394.
 pigeon pea, 319.
Platanus occidentalis, 375.
 plum, 225.
Poinsettia pulcherrima, 391.
 potato, 32.
 prune, 225.
Quercus palustris, 376.
 raspberry, 242.
 rhubarb, 91.
Salix sp., 376.
Sesbania sp., 394.
Shepherdia argentea, 394.
Solanum carolinense, 394.
 soybean, 317.
 squash, 78.
 sunflower, 323.
 sweet clover, 318.
 sweet potato, 51.
Syringa vulgaris, 393.

Tamarix sp., 393.
 Thuja sp., 370.
 Tilia sp., 377.
 tomato, 45.
 Tragia sp., 394.
 velvet bean, 318.
 vetch, 318.
 walnut, 257.
Physalospora ilicis, *Ilex* spp., 386.
 malorum, apple, 189, 327, 328.
 quince, 212, 329.
 Rosa sp., 352.
 rhodina, *Quercus* spp., 376.
 sp., *Populus laiocarpa*, 375.
Physarum cinereum, grasses, 320.
 Poa sp., 320.
 Physiological leaf-spot, wheat, 127.
Physoderma zeae-maydis, corn, 302.
Phytomonas atrofaciens, (see *Bacterium atrofaciens*), 281.
 wheat, 125.
 cichori, french endive, 146.
 corona faciens, oats, 129.
 flaccum faciens, bean, 136.
 intybi, french endive, 146.
 medicaginis, alfalfa, 150.
 medicaginis phaseolicola, bean, 135.
 phaseoli, bean, 136.
 dwarf lima bean, 138.
 pisi, pea, 139.
 pruni, chokecherry, 158.
 peach, 159.
 plum, 158.
 tumefaciens, apple, 156.
 blackberry, 160.
Populus angustifolia, 168.
Phytophthora cactorum, apple, 204.
 ginseng, 88.
Lilium spp., 388.
Rhodendron spp., 391.
 strawberry, 235.
 capsici, pepper, 91.
 infestans, potato, 17, 344, 345.
 tomato, 45, 347.
 nicotianae, tobacco, 102.
 paeoniae, *Paeonia* spp., 390.
 parasitica, tomato, 46.
 phaseoli, lima bean, 57, 341.
 spp., coconut, 258.
 rhubarb, 91.
 terrestris, citrus, 248.
 tomato, 46.

Piggotia fraxini, *Fraxinus americana*, 357.
Piricularia grisea, *Chaetochloa italicica*, 320.
Chaetochloa viridis, 320.
Setaria viridis, 320.
Syntherisma sanguinalis, 320.
oryzae, rice, 306.
 Pitting, potato, 34.
Pitya cupressi, *Juniperus procumbens*, 367.
Plasmodiophora brassicae, *Brassica napus*, 394.
 broccoli, 66.
 cabbage, 64, 342.
 cauliflower, 66.
 Chinese cabbage, 67.
 kohlrabi, 68.
Plasmopara halstedii, *Bidens vulgata*, 355.
 sunflower, 153, 323.
 humuli, *Humulus lupulus*, 394.
 viticola, grape, 231, 332.
 Psedera sp., 360.
Vitis aestivalis, 363.
Plectodiscella veneta, blackberry, 243, 331.
 dewberry, 244.
 loganberry, 244.
 raspberry, 238, 331.
Plenodomus destruens, sweet potato, 51.
Pleospora lactucicola, *Lactuca* sp., 358.
 sp., *Sedum telephium*, 392.
Pleurotus ostreatus, *Prunus serotina*, 360.
Plowrightia morbosa, cherry, 229, 330.
 chokecherry, 158.
 plum, 224, 330.
 prune, 224.
Prunus pennsylvanica, 360.
 serviceberry, 161.
 symphoricarpi, snowberry, 165.
Podosphaera leucotricha, apple, 156, 200.
 pear, 210.
oxyacanthae, apple, 156, 327.
 cherry, 229.
 chokecherry, 158.
 peach, 159, 330.
 plum, 158, 225.
 prune, 225.
 quince, 212, 329.
 sour cherry, 157.

- Pokkah bong, sugar cane, 104.
Polyporus anceps, *Pinus ponderosa*, 370.
balsameus, *Abies balsamea*, 367.
circinatus, *Pseudotsuga douglasii*,
 370.
erubescens, *Abies grandis*, 367.
leucospongia, *Pseudotsuga douglasii*,
 370.
schweinitzii, Douglas fir, 171.
 western yellow pine, 170.
sulphureus, *Quercus alba*, 361.
 Poor germination, potato, 34.
Poria weiri, giant arborvitae, 171.
 Powdery mildew, pea, 4.
 Premature dropping, fig, 252.
 peach, 222.
Protocoronospora nigricans, (see *Kabatiella nigricans*), 318.
Pseudomonas alboprecipitans, millet,
 134.
savastanoi nerii, *Nerium oleander*,
 389.
Pseudomosaic, bean, 138.
Pseudoperonospora celtidis, *Celtis occidentalis*, 355.
cubensis, cantaloupe, 342.
 cucumber, 72, 343.
 muskmelon, 75.
 squash, 78, 346.
 watermelon, 80.
humuli, hops, 88.
Pseudopeziza medicaginis, alfalfa,
 149, 307.
 white sweet clover, 339.
ribis, currant, 162, 245.
 gooseberry, 245.
Ribes odoratum, 394.
Ribes saxosum, 162.
trifolii, alfalfa, 337.
 red clover, 152, 314, 338.
Trifolium hybridum, 362.
Psorosis, citrus, 249.
Psyllid yellows, potato, 28.
Puccinia acuminata, *Cornus canadensis*,
 164.
agropyri, *Agropyron spp.*, 135.
anemones-virginianae, *Anemone virginiana*, 354.
anomala, barley, 286.
antirrhini, snapdragon, 165.
asparagi, asparagus, 86.
asteris, *Aster sp.*, 355.
asterum, *Erigeron ramosus*, 357.
bardanae, *Arctium minus*, 354.
circaeae, *Circaea lutetiana*, 356.
clematidis, *Bromus purgans*, 355.
 larkspur, 164.
convolvuli, *Convolvulus sepium*, 356.
coronata, *buffaloberry*, 163.
Holcus lanatus, 358.
 oats, 129, 295, 335.
crandallii, snowberry, 165.
cyperi, *Cyperus strigosus*, 356.
dispersa, rye, 133, 282, 335.
elymi, columbine, 163.
emaculata, *Panicum gattengeri*, 359.
epiphylla, *Poa pratensis*, 320.
fraxinata, ash, 166.
globosipes, *Lycium halimifolium*,
 358.
glumarum, *Agrostis alba*, 320.
 barley, 132.
Hordeum jubatum, 123, 132.
 wheat, 122, 271.
graminis, *Agropyron repens*, 320.
Agropyron spp., 135.
Agrostis alba, 320.
Avena fatua, 129.
 barley, 120, 131, 286.
Fusarium parasiticum, 339.
Hordeum jubatum, 320.
 oats, 120, 129, 294, 335.
Phleum pratense, 320.
 rye, 120, 282, 335.
timothy, 134.
 timothy grass, 339.
 wheat, 119, 128, 266, 336, 337.
grossulariae, gooseberry, 245.
helianthi, *Heliopsis helianthoides*,
 357.
helianthi-mollis, *Helianthus giganteus*, 349, 385.
 sunflower, 153, 323.
hibisciata, cotton, 97.
Muhlenbergia mexicana, 359.
Muhlenbergia schreberi, 359.
hieraci, endive, 88.
ligustri, *Ligustrum sp.*, 164.
malvacearum, *Althaea rosea*, 348.
 hollyhock, 164.
menthae, *Mentha spicata*, 359.
Monarda didyma, 350.
Pycnanthemum flexuosum, 360.
Pycnanthemum pycnanthemooides,
 360.
montanensis, *Agropyron spp.*, 135.

- oblitterata, *Agropyron* spp., 135.
 columbine, 163.
 patterssoniana, *Agropyron* spp., 135.
 polygoni-amphibii, *Tiniaria scandens*, 362.
 purpurea, *Holcus halepensis*, 320.
 rubigo-vera, *Agropyron* spp., 135.
 sambuci, *Carex lurida*, 355.
 simplex, barley, 132.
 sorghi, corn, 302, 333, 334.
 symphoricarpi, snowberry, 165,
 triticina, wheat, 120, 269, 336,
 337.
 violae, violet, 166.
 windsoriae, *Tridens flavus*, 362.
 xanthii, *Xanthium canadense*, 363.
Pucciniastrum agrimoniae, *Agrimonia gryposepala*, 353.
hydrangeae, *Hydrangea arborescens*,
 358.
 myrtilli, huckleberry, 163.
 Vaccinium pensylvanicum, 363.
 pustulatum, alpine fir, 171.
 great silver fir, 171.
Pucciniola nerviphila, white clover,
 153.
 (see *Uromyces nerviphila*), 315.
 Puffing, tomato, 48.
 Purple sheat spot, field corn, 133.
Pyrenopeziza medicaginis, alfalfa,
 149, 308, 337.
Pyrenophora teres, barley, 291.
Pythiacystis citrophthora, citrus,
 248.
Pythium arrhenomanes, corn, 299.
 debaryanum, potato, 143.
 sp., *Alyssum maritimum*, 377.
 cucumber, 73.
 lettuce, 84.
Pelargonium sp., 390.
 sugar cane, 104.
 sweet potato, 51.
 watermelon, 81.
 spp., pea, 141.
- R
- Rabbit's ear, (see yellows), 84.
Ramularia angustata, *Azalea* sp., 378.
 areola, cotton, 97.
 armoraciae, horseradish, 147.
 arvensis, *Potentilla canadensis*, 360.
 Potentilla monspeliensis, 360.
- rudbeckiae, golden glow, 164.
 tulasnei, *Fragaria* sp., 357.
Razoumofskaya douglasii microcarpa,
 spruce, 170.
 laricis, alpine fir, 171.
 limber pines, 169.
 spruce, 170.
 western larch, 170.
 Red leaf-rust, wheat, 128.
Rhabdocline pseudotsugae, Douglas
 fir, 171.
Rhizina inflata, great silver fir,
 171.
 lodgepole pine, 169.
 western white pine, 169.
 western yellow pine, 170.
Rhizobium leguminosarum, alfalfa, 151.
 bean, 137.
 pea, 141.
 red clover, 152.
Rhizoctonia, pea, 3, 11, 141.
 potato, 345.
 solani, (see *Corticium vagum*), 21.
 eggplant, 87.
 endive, 88.
 lima bean, 58.
 strawberry, 237.
 sp., *Agrostis* sp., 320.
 alfalfa, 312.
Alyssum maritimum, 377.
Antirrhinum majus, 378.
 bean, 56.
 carrot, 87.
 cauliflower, 66.
Cheiranthes cheiri, 381.
 cowpea, 316.
Dianthus chinensis, 383.
 kudzu, 319.
Mentzelia aurea, 388.
 okra, 89.
 pepper, 91.
 rye, 284.
 spinach, 92.
 strawberry, 235.
 sugar beet, 100.
 watermelon, 81.
 spp., cabbage, 65.
 ginseng, 88.
- Rhizopus nigricans*, strawberry, 235.
 sweet potato, 51.
- Rhynchosporium secalis*, barley, 291.
Rhytisma acerinum, *Acer* spp., 371.
 maple, 167.

punctatum, *Acer pennsylvanicum*, 353, 371.
 salicina, *Salix* sp., 362.
salicinum, willow, 168.
solidaginis, *Solidago* sp., 362.
vaccinii, huckleberry, 163.
 Vaccinium stramineum, 363.
vitis, grape, 233.
 Ring spot, apple, 206.
 cantaloupe, 342.
 muskmelon, 76.
Paeonia spp., 390.
 pumpkin, 77, 345.
 red clover, 152.
 tobacco, 102, 340.
Roestelia lacerata, hawthorn, 162.
 tubulata, hawthorn, 162.
 Root-knot, pea, 5.
 Root-rot, alfalfa, 310.
 apple, 206.
 corn, 299.
 pea, 3, 4, 13.
 strawberry, 235.
 Rosette, peach, 219.
 pecan, 256.
 walnut, 257.
 Rugose mosaic, potato, 26.
 Rust, cotton, 97.
 lettuce, 84.

S

Sand-drown, tobacco, 102.
Sapromyces reinschii, Douglas fir, 171.
 Scald, apple, 201.
Scleroderris bacillifera, *Abies grandis*, 367.
Sclerospora graminicola, *Chaetochloa italicica*, 320.
Chaetochloa sp., 320.
Chaetochloa viridis, 320.
 millet, 134.
Setaria viridis, 134.
Sclerotinia cinerea, pear, 210.
fructicola, apple, 204, 327.
 cherry, 226, 331.
 peach, 212, 330.
 plum, 223, 330.
 prune, 223.
Prunus glandulosa, 351.
 sweet cherry, 157.
libertiana, cabbage, 146.

carrot, 147.
 french endive, 146.
 hemp., 155.
 lettuce, 146.
 sunflower, 153.
 sweet clover, 151.
sclerotiorum, (see *S. libertiana*), 153.
 bean, 56, 341.
 cabbage, 65.
 carrot, 87.
 celery, 83.
Cirsium arvense, 394.
 citrus, 248.
 cucumber, 73.
 fig, 252.
 parsnip, 90.
 romaine, 92.
 squash, 78.
 sunflower, 323.
 tomato, 45.
 turnip, 69.
 sp., mulberry, 247.
 spp., lettuce, 84.
trifoliorum, clover, 314.
Sclerotium bataticola, sweet potato, 51.
 bifrons, *Populus tremuloides*, 375.
cepivorum, onion, 61.
delphinii, *Aconitum*, 377.
 Delphinium sp., 382.
 Iris spp., 387.
 muskmelon, 76.
 Narcissus spp., 389.
 gladioli, *Gladiolus* sp., 385.
 oryzae, rice, 306.
 rhizodes, hay, 320.
 (see *Typhula graminum*), 127.
 rolfsii, bean, 56.
 cabbage, 65.
 Calendula officinalis, 379.
 Colocasia sp., 381.
 Delphinium sp., 383.
 Dianthus caryophyllus, 383.
 eggplant, 87.
 Forsythia sp., 384.
 muskmelon, 76.
 peanut, 90.
 pepper, 91.
 potato, 32.
 rhubarb, 91.
 soybean, 317.
 sugar beet, 108.
 sweet potato, 51.

- tomato, 45.
Tulipa sp., 393.
 turnip, 69.
 watermelon, 81.
 sp., muskmelon, 76.
 watermelon, 81.
Scolecochitrichum graminis, bluegrass,
 339.
Dactylis glomerata, 321, 356.
Poa pratensis, 321.
iridis, *Iris* spp., 386.
Septobasidium pseudopedicellatum,
 apple, 204.
 pecan, 256.
Septogloewum fraxini, *Fraxinus oregona*,
 374.
 maculans, willow, 168.
Septoria acerella, boxelder, 167.
 althaeae, *Althaea rosea*, 377.
 apii, celery, 81, 147, 342.
 atropurpurea, *Aster multiflorus*,
 355.
 bromi, *Bromus inermis*, 321.
Bromus japonicus, 355.
cacaliae, *Cacalia atriplicifolia*,
 355.
chrysanthemella, *Chrysanthemum* sp.,
 349, 381.
chrysanthemi, *Chrysanthemum leucan-*
themum, 356.
cirsii, *Cirsium* sp., 356.
 compacta, alsike clover, 152.
convolvuli, *Convolvulus sepium*, 356.
Colvolvulus sp., 356.
 cornicola, *Cornus florida*, 356.
 red osier, 164.
erechtitis, *Erechtites hieracifolia*,
 357.
 gladioli, *Gladiolus* sp., 385.
 glycines, soybean, 317.
 graminum, *Panicum clandestinum*, 359.
 helianthi, *Helianthus giganteus*,
 349, 385.
 sunflower, 153, 323.
lactucae, *Lactuca scariola*, 358.
 lettuce, 84, 343.
lycopersici, tomato, 36, 347.
meliloti, sweet clover, 151.
 yellow sweet clover, 339.
microsperma, *Betula lenta*, 355.
mimuli, *Mimulus ringens*, 359.
musiva, poplar, 168.
nodorum, wheat, 126, 274, 336, 337.
 ochroleuca, *Castanea dentata*, 348.
 oenotherae, *Oenothera* sp., 359.
 philadelphi, *Philadelphus* sp., 390.
 pisi, pea, 9, 140.
 platanifolia, *Platanus occidentalis*,
 351, 360, 375.
 podophyllina, *Podophyllum peltatum*,
 360.
 polygonorum, *Polygonum pensylvani-*
cum, 360.
 prunellae, *Prunella vulgaris*, 360.
 saccharina occidentalis, maple, 167.
 salicifoliae, spireae, 166.
 salicis, willow, 168.
 scrophulariae, *Scrophularia mari-*
landica, 362.
 secalis, rye, 284.
 sp., *Iris* spp., 387.
 symphoricarpi, snowberry, 165.
 tritici, wheat, 126, 275.
 Shedding and cracking of nuts, pecan,
 256.
 Slime flux, *Aesculus hippocastanum*,
 372.
 Slimy soft rot, lettuce, 84.
Sorosporium reilianum, corn, 303.
 sorghum, 306.
Sparassis radicata, Douglas fir, 171,
 spruce, 170.
 western larch, 170.
 western white pine, 169.
Sphaeloma ampelinum, grape, 232.
 fawcetti, citrus, 248.
 symphoricarpi, *Symporicarpos* spp.,
 393.
Sphaelotheca sorghi, *Holcus halepen-*
sis, 321.
 sorghum, 134, 306.
Sphaerella aquilegiae, columbine, 163.
Sphaeropsis cruenta, *Smilax hispida*,
 362.
 ellisi, *Pinus nigra*, 369.
 Pinus sylvestris, 370.
 salviae, *Salvia* spp., 392.
 sp., *Ilex* spp., 386.
 Pinus montana mughus, 368.
 Pinus nigra, 369.
Sphaerotheca castagnaei, *Bidens vulgata*,
 355.
 humuli, buffaloberry, 163.
 raspberry, 242.
 strawberry, 161, 235.
 mors-uvae, currant, 162, 246.

- gooseberry, 162, 246.
pannosa, peach, 222.
 Rosa spp., 392.
 rose, 165.
 Spindle tuber, potato, 27, 144.
 Splitting, cherry, 229.
Spondylocladium atrovirens, potato, 32.
Sporodesmium scorzonerae, salsify, 92, 346.
 Scorzonera hispanica, 346.
Sporotrichum poae, *Dianthus caryophyllus*, 383.
 sp., *Lilium* spp., 388.
 Spotting, rice, 307.
 Spray injury, apple, 202.
 peach, 221.
 plum, 226.
 prune, 226.
 Sprout tubers, potato, 35.
Stagonospora carpathica, white clover, 314, 339.
 white sweet clover, 318.
curtisii, *Narcissus* spp., 389.
 Stalk rots, corn, 299.
 Stem canker, pea, 5.
 Pelargonium sp., 350.
Stemonites splendens, potato, 32.
Stemphyllium sp., tomato, 45.
 Stem-rust, oats, 335.
 Storm injury, tobacco, 102.
 Straighthead, rice, 307.
 Streak, alfalfa, 312.
 pea, 5, 12, 13.
 raspberry, 240.
 tomato, 42.
 Stripe, wheat, 281.
Strumella sp., *Tilia* sp., 377.
 Stunt, *Dahlia* sp., 382.
 Sulphur injury, apple, 202.
 Sun scald, apple, 201.
 peach, 222.
 pepper, 91.
Synchytrium decipiens, *Amphicarpa monoica*, 354.
- T
- Tall multiple bud, sugar cane, 105.
 Target canker, apple 206, 328.
Taphrina coerulescens, *Quercus* spp., 376.
 filicina, *Polystichum acrostichoides*, 391.
- Thielavia basicola, pea, 8.
 tobacco, 101, 340.
Tilletia horrida, rice, 306.
 laevis, wheat, 115, 128, 261, 336.
 337.
 tritici, wheat, 116, 261.
 Tipburn, alfalfa, 150.
 cabbage, 65.
 flax, 305.
 lettuce, 84.
 potato, 30, 145, 345.
Trametes pini, Douglas fir, 171.
 lodgepole pine, 169.
 spruce, 170.
 western yellow pine, 170.
 Translucent bacterial stripe, sorghum, 133.
 Translucent leaf-spot, corn, 303.
 Translucent spot, corn, 333.
Tranzschelia punctata, peach, 222.
 plum, 225.
 prune, 225.
Tuberularia sp., *Buxus sempervirens*, 379.
Magnolia sp., 374.
Rosa spp., 392.
Tylenchus dipsaci, alfalfa, 308.
Fragaria chiloensis, 237.
Narcissus spp., 389.
 oats, 297.
Phlox spp., 391.
Primula obconica, 391.
 strawberry, 237.
 sp., *Deutzia longifolia veitchii*, 383.
 tritici, wheat, 280, 336.
Typhula graminum, wheat, 127, 281.
- U
- Uncinula australiana, *Lagerstroemia indica*, 387.
flexuosa, *Aesculus hippocastanum*, 348, 372.
 necator, grape, 231, 332.
 salicis, poplar, 168.
 willow, 168.
Uredinopsis pteridis, great silver fir, 171.
Uredo holwayi, hemlock, 171.
Urocystis cepulae, onion, 58.
 occulta, rye, 284, 335.
 tritici, wheat, 266.

Uromyces albus, vetch, 155.
appendiculatus, bean, 55, 136, 341.
asclepiadis, *Asclepias syriaca*, 354.
betae, sugar beet, 108.
caryophyllinus, carnation, 163.
Dianthus caryophyllus, 383.
fallens, red clover, 152, 315, 338.
hedysari-obscuri, vetch, 155.
hedysari-paniculatae, *Desmodium canescens*, 356.
holwayi, *Lilium spp.*, 388.
hybridi, *Trifolium hybridum*, 362.
hyperici-frondosi, *Hypericum punctatum*, 358.
junci-effusi, *Juncus effusus*, 358.
lespedezae-procumbentis, *Lespedeza repens*, 358.
Lespedeza virginica, 358.
nerviphila, white clover, 315.
perigynius, goldenglow, 164.
polygoni, *Polygonum aviculare*, 360.
proeminens, *Euphorbia heterophylla*, 357.
Euphorbia preslii, 357.
rose, 165.
rudbeckiae, goldenglow, 164.
toxicodendri, *Rhus toxicodendron*, 361.
trifolii, alsike clover, 152, 315.
white clover, 153, 315, 339.
vignae, cowpea, 316.
Urophlyctis alfalfa, alfalfa, 151, 312.
Ustilaginoidea virens, rice, 307.
Ustilago anomala, *Tiniaria scandens*, 362.
avenae, oats, 129, 292, 335.
bromivora, *Bromus tectorum*, 321.
hordei, barley, 130, 131, 284, 332.
hypodytes, *Agropyron spp.*, 135.
levis, oats, 129, 292, 335.
neglecta, *Chaetochloa lutescens*, 321.
nuda, barley, 131, 285, 332.
oxalidis, *Oxalis stricta*, 389.
rabenhorstiana, *Syntherisma sanguinalis*, 321.
residua, *Danthonia spicata*, 356.
striaeformis, *Dactylis glomerata*, 321.
Phleum pratense, 321, 359.
Poa compressa, 360.
timothy, 135.

tritici, wheat, 119, 128, 264, 337.
zeae, corn, 133, 297, 333, 334.

V

Valsa leucostoma, apple, 156.
mountain ash, 167.
Sorbus aucuparia, 352, 376.
nivea, poplar, 168.
salicina, willow, 168.
spp., apple, 156.
Venturia inaequalis, apple, 155, 180, 327, 328.
Malus coronaria, 374.
Pyrus coronaria, 327, 361.
pyrina, pear, 157, 209, 328, 329.
Vermicularia circinans, onion, 147.
dematum, *Heuchera americana*, 357.
herbarum, *Fraxinus americana*, 357.
Verticillium albo-atrum, *Acer platanoides*, 371.
Ailanthus glandulosa, 372.
cotton, 98.
eggplant, 87.
Heliotropium peruvianum, 385.
okra, 89.
potato, 32.
raspberry, 242.
Solanum carolinense, 394.
tomato, 45, 46.
foexii, *Narcissus spp.*, 389.
sp., *Acer palmatum rubrum*, 371.
Acer saccharum, 372.
Antirrhinum majus, 378.
Paeonia spp., 390.
Viroses, potato, 144.
Virus di seases, potato, 23.
Volutella dianthi, *Dianthus barbatus*, 383.
fructi, apple, 204, 327.
occidentalis minor, willow, 168.

W

Walnut injury, potato, 35.
Water core, apple, 156, 206.
Weather injury, apple, 201.
Western yellow blight, (see curly top), 38.
White blast, onion, 61.
White spot, alfalfa, 150, 312.
Wilt, cotton, 98.
pea, 13, 14.

Rhus sp., 361.
 snapdragon, 165.
 squash, 78.
 Winter injury, alfalfa, 310, 337.
 apple, 156, 201.
 peach, 220.
 strawberry, 235.
 Winter killing, cherry, 228.
 Witches' broom, alfalfa, 309.
 potato, 30, 144.
 tobacco, 146.
 tomato, 145.

X

Xanthosis, strawberry, 237.
Xylaria mali, apple, 199.
 pear, 210.
polymorpha, apple, 199.
 spp., apple, 327.

Y

Yellow dwarf, onion, 60.

potato, 30.
 Yellowing, strawberry, 160.
 tomato, 48.
 Yellow leaf, sour cherry, 157.
Yellows, *Calendula officinalis*,
 379.
Callistephus chinensis, 348.
 380.
 carrot, 87.
 China aster, 163.
Cosmos sp., 381.
 lettuce, 84.
 peach, 217, 330.
 plum, 158.
Rosa spp., 352.
 spinach, 92.
 strawberry, 237.
 Yellow top, alfalfa, 312.

Z

Zygodesmus obtusus, poplar,
 168.

ERRATA AND EXPLANATION

- Page
Done 38 Read "Eutettix tenella" instead of "E. tenellus".
Done 45 Read "Caconema radicicola" instead of "Caconeman".
Done 57 Read "Diaporthe phaseolorum" instead of "D. phaseolarum".
Done 78 Read "Bacillus tracheiphilus" instead of "B. tracheiphillus".
Done 88 Read "Pseudoperonospora humili" instead of "P. humili".
Done 91 Read "Gloeosporium piperatum" instead of "G. piperitum".
Done 146 Read "Bacterium spp." instead of "Bacterial spp."
Done 210 Read "Xylaria mali" instead of "Xylari".
Done 236 Read "Pezizella" instead of "Pezella".
Done 244 Read "Gymnoconia interstitialis" instead of "G. interstitalis".
266 Read "Puccinia graminis" instead of "Puccini".
Done 283 Read "Gibberella saubinetii" instead of "G. saubinetti".
Done 315 Read "Uromyces nerviphila" instead of "U. nerviphilia".
Done 320 Read "Epichloe typhina" instead of "Epichloa".
Done Read "Holcus" instead of "Halcus", also page 321.
Done 321 Read "Sphacelotheca sorghi" instead of "Sphaceloteca".
Done 349 Read "Alternaria fasciculata" instead of "A. fasiculata".
Done 350 Read "Cercospora omphakodes" instead of "C. omphacodes", also page 391.
Done 360 Read "Septoria prunellae" instead of "S. brunellae".
Done 361 Read "Rhus typhina" instead of "Rhus typina".
Done 387 Read "Erostrotheca multiformis" instead of "E. multiflormis".
Done 394 Read "Coleosporium elephantopodis" instead of "C. elephantopidis".

